

# SKLS: Design Studio 3 (Industrial Design)

Module Title	:		Design Studio 3 (Indust	trial Design)
Language of	Instructio	n:	English	
Credits:		20		
NEO Loval:		7		
NFQ Level.		/		
Module Deliv	vered In		2 programme(s)	
Teaching & Strategies:	Learning		Learners will engage th individual/collaborative ideation and problem-s- resource, facilitated mid peer-to-peer critique/re engagement/process/o blended and hybrid app	arough applied studio-based-learning (SBL) and user engagement, in data collection, analysis and evaluation for problem/opportunity identification, olving. Learning is supported through synchronous/asynchronous lecture and/or cro-tasks and group discussion, tutor formative feedback, facilitated tutor-learner and view, e-learning and self-directed learning, and self/peer reflection on utput toward strategy enhancement and further learning; using on-campus and/or procedues.
Module Aim	:		The aim of the module decision-making and de as stakeholder engage problem-solving. Learn The aim is to develop a flexible, while also prov attribute.	is to embed data-led and evidence-based method and process within design esign practice. The module seeks to extend learner use of primary data-source, such ment and co-design process, to supplement secondary data-sets, for design-led ers use hypothesise and design-brief to identify and define new product opportunity. upplied output which focuses on artefact UX, making product use easy, intuitive and iding surprise and delight, and embody social/cultural meaning through detail
Learning Ou	tcomes			
On successfu	Il completio	n of th	is module the learner sh	ould be able to:
LO1	Learner ca	an ana	lyse primary/secondary	data of artefact for problem identification.
LO2	Learner wi	ill utilis	e data to sketch concep	t and iteration for problem solution.
LO3	Learner wi	ill und	erstand academic resear	rch ethical guidelines when engaging human participants in data-collection.
LO4	Learner ca	an des	ign independently and co	ollaboratively to effect data-led decision and communicate.
LO5	Learner ca brief.	an inte	rpret research outcomes	s to tightly specify design intent and user experience through hypothesis and design
LO6	Learner ca	an prej	pare textual and diagram	matic technical output to effectively communicate design specification and intent.
LO7	Learner ca	an deb	ate philosophical approa	ach of visual language and design-decision within social/cultural/economic contexts.
LO8	Learner ca behaviour.	an insi	ghtfully self-critique, rese	earch method/process/decision, defend aesthetic philosophy, and attitude &
Pre-requisite	elearning			
Module Rec This is prior l	ommendati earning (or	i <b>ons</b> a prac	tical skill) that is recomm	nended before enrolment in this module.
No recomme	ndations list	ted		
Incompatible	e <b>Modules</b> odules whic	h have	e learning outcomes that	are too similar to the learning outcomes of this module.
No incompati	ble module:	s listed	t	
Co-requisite	Modules			
6043	DSGN	H2R0	8	Marketing for Design
6860	DSGN	H3425	5	Prototyping & Surfaces
6861	MODL	H3405	5	Advanced 3D Computer Modelling
<b>Requiremen</b> This is prior l	<b>ts</b> earning (or	a prac	tical skill) that is mandat	ory before enrolment in this module is allowed.
No requireme	ents listed			
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### **Module Content & Assessment**

### Indicative Content

### ACQUISITION: (listening/reading/observing)

• P12: task planning, group-working & negotiation for optimisation, design data-tools (OOBE/SWOT/persona/mood-style-benchmark boarding/user journey mapping etc.), data analysis techniques, technical documentation, introduction to ethics in design data collection involving human participants, co-design process, reflective practice writing. • P13: task planning/scoping, ethics declaration process, stakeholder engagement process, co-design process, reflective practice process • P14: project WBS and scheduling, qualitative/quantitive design research tools, data analysis, hypothesis, design brief, Maslow, narrative and metaphor, semantic symbolism, meaning in artefact.

### COLLABORATION: (engaging/sharing/building)

• P12: group (1-3) artefact negotiated purchase, group artefact analysis/findings. • P13: group negotiated plan, group design ethics declaration, group scope/co-design engagement, group directions, group proposal. • P14: group project plan, group research findings, group PSS integration. • MT: inter-group/disciplinary/institutional work tasks.

### DISCUSSION: (tutoring/conversing/presenting)

• P12: product purchase, group plan, product disassembly and observation, directions, + group discussions. • P13: planning, ethical requirement/considerations, partner engagement strategies, co-design framing, analysis of data, directions, + group discussion. • MT: group planning/problem interpretation/response/delivery. • P14: thematic selection, research framing, design hypothesis, problem clarification/design brief, analysis of data, form & story (within social, technological, economic, political contexts), product detailing, + group discussion. • MT: group planning/problem interpretation/response/delivery

INVESTIGATION: (searching/studying/evaluating) • P12: introduction and aplication of artefact/user/context analysis tools appropriate to industrial design; out-of-box experience (OOBE), technical data evaluation (ACCESS FM), product analysis (SWOT), product usability, user-experience (UX), user-interaction (UI), product the sector analysis (SWOT) and the sector analy benchmark. • P13: co-design process, ethics in data collection with human participants, reflective practice. • P14: stakeholder map, sectoral analysis (SWOT), context map, persona-framing, user journey, sectoral benchmark, style/trends-board, mood-board, mind-map, parameter scoping (features & functions), space envelop/configuration, component specification, system integration, product service system (PSS) & eco-systems, visual language, detail refinement. • MT: off-site observational field-trip.

### PRACTICE: (capturing/doing/communicating)

 P12: sketching, ideating, mapping/modelling, measuring/calculating, communicating, presenting etc. • P13: mapping/modelling, communicating/presenting etc. • P14: sketching, ideating, iterating, mapping/modelling, measuring/calculating, rendering etc. • MT: observing, sketching, conceptualising, narrating, role-playing, presenting.

### PRODUCTION: (designing/writing/modelling)

• P12: micro-group product assessment findings, individual directions, individual re-design proposal, individual technical data sheets/report, individual reflective practice. • P13: group ethics declaration, group directions, group proposal, group prevention, individual reflective practice. • P14: group project plan, group research findings, individual hypothesis, individual firections, individual proposal, individual design process design-book, individual report, individual defence interview. • MT: PP sketch proposals, digital presentations, visual boards

### Micro-Task (24/48 hr.)

• MT1: LOOK, SEE, OBSERVE - short micro-group task to identify design/artefact/service within public realm, engage primary observation of public iteration/s, make key observation/s, and propose design intervention/improvements. • MT2: DEPAC - rapid sketching exercise, stimulated by randomly selected cards displaying actions/verbs/adjectives/emotions etc., stimulating iterative random associations; leading to non-non-lineear conceptual idea. • MT3: WILD CARD - short design exercise to address identified class need; likely to support learning. MT4: 24 HOUR CHALLENGE - group design challenge; normally in collaboration with partner college.

Assessment Breakdown	%
Continuous Assessment	100.00%

Continuous Assessm	ent			
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Case Studies	P12: Review Case-study: Assessment of learner knowledge, understanding and application of design research tools, analysis and insight of a small low/mid-priced hand-held consumer electrical/electronic artefact, based on synthesis of primary user engagement feedback with secondary data analysis; informing re-design proposal of an enhanced artefact; focusing on UX/UI, technical specification and/or functional/aesthetic (min. major/minor).	2,4,5,6,7,8	20.00	Week 7
Project	P13-Co-design: Assessment of learner engagement with external partner/s for cross-capacity input, design ethics in data- collection involving human participation, collective problem framing, data collection/analysis (primary and secondary), and co-design ideation, proposal refinement and communication, for problem-solving in mapping context/system/eco-system with a social/commercial/competitive focus.	1,3,4,5,6,7	20.00	Week 13
Project	P14-Artefact UX Design; Form & Story: Assessment of learner engagement with secondary qualitative and qualitative data, analysis and research, to hypothesise and clarify design action focus through written design brief for new product opportunity; from thematic/sectoral areas. Application of design approach, method and tools to conceptualise, iterate, develop, refine, specify and communicate outcome; focused on development of appropriate visual vocabulary in form and story (visual narrative metaphor); reflecting emerging trends in product family, service system, eco-system, detail and/or user experience.	1,4,5,6,7	40.00	Week 28
Other	Learner awareness, engagement and development of Graduate Attributes is captured on a five Likert Scale range; including module engagement, collaboration, contribution, professionalism, attitude & behaviours etc		10.00	Ongoing
Reflective Journal	Learner prepares individual reflection on engagement, collaboration and performance in development of knowledge, skill and competency in design research, process and practice, and state design philosophy, and highlight future learning need/s.	4,5,7,8	5.00	Sem 1 End
Oral Examination/Interview	Learner defends engagement, acquisition, discussion/participation/collaboration, investigation, practice, production, synthesis of learning, and attainment of graduate attributes from across programatic modular content.	1,2,3,4,5,6,7,8	5.00	Sem 2 End
No Project				
No Practical				

No End of Module Formal Examination

SETU Carlow Campus reserves the right to alter the nature and timings of assessment



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# Module Workload

Workload: Full Time		
Workload Type	Frequency	Average Weekly Learner Workload
Studio Based Learning	Every Week	11.00
Independent Learning	Every Week	8.00
	Total Hours	19.00

Module Delivered In				
Programme Code	Programme	Semester	Delivery	
CW_DHPDI_B	Bachelor of Arts (Honours) in Product Design Innovation	6	Mandatory	
CW_DHIDE_D	Bachelor of Arts in Design	6	Mandatory	